

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1999	Park: Shenandoah NP
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Name: Douglas Raeburn Phone: 540-999-3441 Email: n/a	
Permit#: SHEN1999N-228	
Park-assigned Study Id. #: unknown	
Project Title: Use Of Prescribed Burning To Regenerate Pitch And Table Mountain Pine Forests	
Permit Start Date: Jan 01, 1999	Permit Expiration Date Jan 01, 2000
Study Start Date: Jan 01, 1997	Study End Date Jan 01, 1999
Study Status: Completed	
Activity Type: Research	
Subject/Discipline: Land Use / Forestry	
Objectives: 1. To determine the effectiveness of prescribed burning in regenerating pitch-Table Mountain pine forests with varying levels of deciduous species present.;2. To develop management recommendations for regenerating pitch-Table Mountain pine forests.	
Findings and Status: Field work on this project was started in November of 1997, and was completed during the fall of 1998. A total of 30 vegetation monitoring plots, established according to the standards of the Shenandoah National Park (SNP) Long Term Ecological Monitoring System (LTEMs), were established in pitch-Table Mountain pine stands in the South District of the Park. On these plots, overstory tree measurements such as density, dominance, and frequency by species were collected. Additionally, density data were also collected on the shrub layer and regeneration spectrum. Each plot was also surveyed for woody fuel loads on both a weight and volume basis, with fuel loads calculated for the one hour, 10 hour, 100 hour, and >100 hour time lag classes. All data has been compiled and submitted to the Shenandoah National Park. This plot establishment and data collection completes Phase I of this project. Phase II, conducted by the SNP, involves the actual prescribed burning. A preliminary burn in April of 1999 was not successful in creating the stand replacement crown fire necessary to regenerate pitch and Table Mountain pine. Further burning and/or other treatments are expected in year 2000.	
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? No	
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 0
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college	
Full name of college or university:	Annual funding provided by NPS to university or college this reporting

Virginia Tech

year:

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